

1   **WHAT IS CLAIMED IS:**

2           1. An ultrasonic sensor assembly for a vehicle reversing radar

3   comprising:

4           an ultrasonic sensor (10) with two electric wires (12);

5           a sleeve (20) made of rubber material, the sleeve having a chamber (22)

6   receiving the sensor (10), and a cone-shaped opening (24) with a center defined

7   at a front end of the chamber (22); and

8           a guide wave cone (30) provided at the center of the cone-shaped

9   opening (24) and abutting the sensor (10).

10          2. The ultrasonic sensor assembly as claimed in claim 1, wherein the

11   sleeve (20) further has a barrier (240) formed at a lower side of the opening (24).

12          3. The ultrasonic sensor assembly as claimed in claim 1, wherein the

13   guide wave cone (30) is installed on a U-like bracket (32) integrated in the sleeve

14   (20).

15          4. The ultrasonic sensor assembly as claimed in claim 3 further

16   comprising a heating wire (34) extending through and out from two free ends of

17   the U-like bracket (32).

18          5. The ultrasonic sensor assembly as claimed in claim 1 further

19   comprising a housing (40) with a passage (42) for receiving the sleeve (20) and

20   sensor (10), and a back cover (44) provided at a rear side of the housing (40).

21          6. The ultrasonic sensor assembly as claimed in claim 5, wherein the

22   sleeve (20) has a flange (26) formed at a rear side and abutting a shoulder (420)

23   formed in the passage (42).

24          7. The ultrasonic sensor assembly as claimed in claim 5 further

- 1 comprising a cushion (50) provided between the back cover (44) and the sleeve
- 2 (20).